

GPRA Ib4 Data Set for Cape Cod National Seashore

Relative importance of the natural process, degree of human influence, and management significance of selected geoindicators at Cape Cod National Seashore.

Geoindicators Identified in the Ecosystem	How important is the process to the park's ecosystem?	Rank the human impact on the geologic process	Significance to park management
COASTAL			
1. Shoreline position	H	H	H
2. Relative sea level	H	L	H
3. Dune formation and reactivation	H	H	L
4. Wind erosion	H	L	H
GROUND WATER			
5. Ground-water quality	H	H	H
6. Ground-water chemistry in the unsaturated zone	H	H	H
7. Ground-water level	H	H	H
SURFACE WATER			
8. Surface water quality	H	H	H
9. Lake levels and salinity	H	L	H
10. Wetlands extent, structure, hydrology	H	H	H
11. Streamflow	H	H	H
12. Stream channel morphology	M	H	M
13. Stream sediment storage and load	H	H	H
SOILS			
14. Soil quality	M	*H/L	L
15. Soil and sediment erosion	L	M	L
HAZARDS			
16. Slope failure (landslides)	H	**L/H	H
17. Surface displacement	L	L	L
SURFICIAL FACTORS			
18. Sediment sequence and composition	H	L	L
19. Subsurface temperature regime	?	?	?

*High with respect to past practices, Low with respect to present practices.

**Low with respect to a regional scale, High with respect to local scale.